Issue No. 34 December 2007





Wheat Crop Condition



Synthesis Situation Мар



Rainfall Situation Page 6

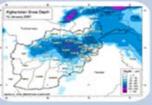
Rainfall Graphs

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Comparison of NDVI

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A fghanistan Snow Depth The Agromet Project of USGS, supported by the US Agency for International Development (USAID), is working together with the Ministry of Agriculture and irrigation Afghan and the Meteorological Authority (AMA) of Ministry of Transport (MoT).

Agromet Network



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Summary

2006 shows decrease of rainfall in most cember 2007. parts of the country.

Comparison of rainfall data for the month Zaranj with 25 ° C was the warmest spot of December 2007 with the same month in of the country. During the month of De-

Cereal Crops Phenological Stages

Central Region:

In most parts of this region as in, Paghman and Karizmir Districts of Kabul Province, Dara and Dashtak Districts of Panjsher Province, Ghorband District and Charikar central Parwan Province Reports are indicating from Urozgan, Nimroz, Za-Wheat is in emergence stage. In Chak and Jaghatu Districts of Wardak Province, Mahmud Ragi center of Kapisa Province wheat is passing its dormancy stage.

East Central Region:

Reports are indicating from Panjab, Yakawlang Districts and center of Bamyan Province that winter wheat is in emergence stage.

North Eastern Region:

Qali-I-Zal Districts and central Kunduz Province, Province that wheat is in emergence stage. Bangi District and central Takhar Province, Baghlan and Badakhshan Provinces.

Eastern Region:

In most parts of this region as Mihterlam center of Laghman Province, Asmar District and Asadabad center of Kunar Province, Agam and Ghaziabad of Nangarhar Province reports are showing that wheat is in emergence and vegetative stages.

South Eastern Region:

In most parts of this region as Tera and Gardez Districts of Paktya Province, Urgun and Khairkot Districts and Sharana central Paktika Province and Khost Province that wheat is in emergence stage.

In Mugur and Sardy Districts of Ghazni Province the wheat is in Dormancy stage.

Southern Region:

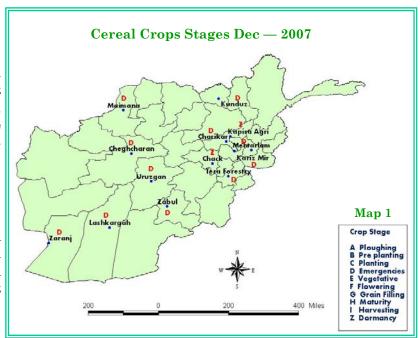
bul, Kandahar and Hilmand Provinces that wheat is in emergence stage.

Northern Region:

Reports from Faryab, Shibirghan central Jawzjan, Saripul Provinces, Dehdadi and Nahri Shahi Districts of Balkh Province are indicating that wheat is in emergence stage.

Western Region:

Reports are indicating from Farah and Ghor Prov-In most parts of this region wheat is in emergence inces, Mugur District and Qala-I-Naw central stage as in Imam Sahib, Chahar Dara, Aqtipa and Badghis Province and Shindand District of Hirat



Rainfall Situation

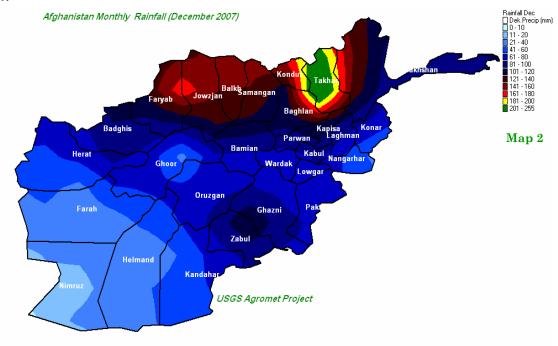
In general rainfall for the month of December 2007 Comparison of rainfall data for the month of Dehad decrease compared to the same month in 2006. cember 2007 with the same month of long term

Comparison of rainfall data for the month of December 2007 with the same month in 2006 (chart 1) shows decrease of rainfall in most parts of the country. Generally for the month of December 2007 the amount of rainfall was lower compared to the same month of last year and inadequate of rainfall could not cover the deficit of rainfall. Significant decrease of rainfall during the month of October and November increased deficit of rainfall and more rainfall is needed to cover water recourses for the upcoming agricultural season. The percentage +/- of rainfall is as follow:

In Baghlan 41 %, Darul Aman -71 %, Faiz Abad -57 %, Farah - 100 %, Gardiz 52 %, Ghazni -92 %, Ghaziabad - 100 %, Heart - 100 %, Jabul Seraj %, Jalalabad -93 %, Kabul -85 %, Kandahar -98 %, Kariz Mir -82 %, Kunduz 89 %, Logar - %, Maimana -20 %, Mazar 87 %, Paghman - 70 %, Sheberghan 72 %, Sarobi - 78 %, Sari Pul, 122 %, Taluqn 81 %.

Comparison of rainfall data for the month of December 2007 with the same month of long term average (chart 2) shows a decrease of rainfall during the month of December 2007 over the same month of long term average. However in some stations rainfall had small increase but totally amount of rainfall was lower for the month of December 2007 compared to the same month of long term average. The percentage +/- of rainfall is as follow:

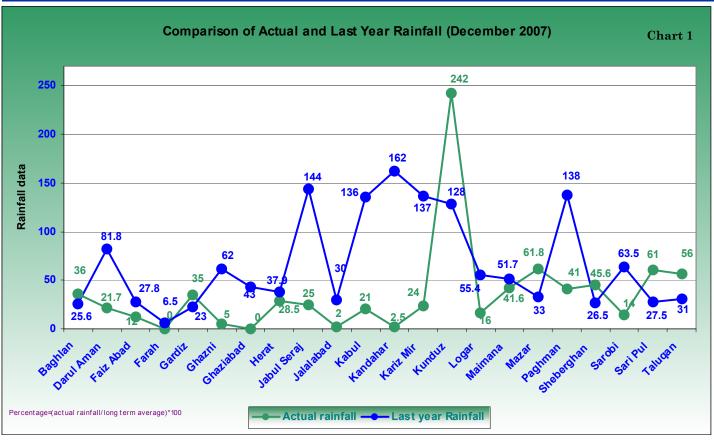
In Baghlan 57 %, Darul Aman - 7 %, Faiz Abad - 63 %, Farah -100 %, Gardiz 218 %, Ghazni - 55 %, Ghaziabad - 100%, Heart - 100 %, Jabul Seraj - 100 %, Jalalabad - 88 %, Kabul - 16 %, Kandahar - 58 %, Kariz Mir - 20 %, Kunduz - 92 %, Logar - 100 %, Maimana 19 %, Mazar 194 %, Paghman - 21 %, Sheberghan 57 %, Sarobi - 53 %, Sari Pul 27 %, Taluqan 42 %.

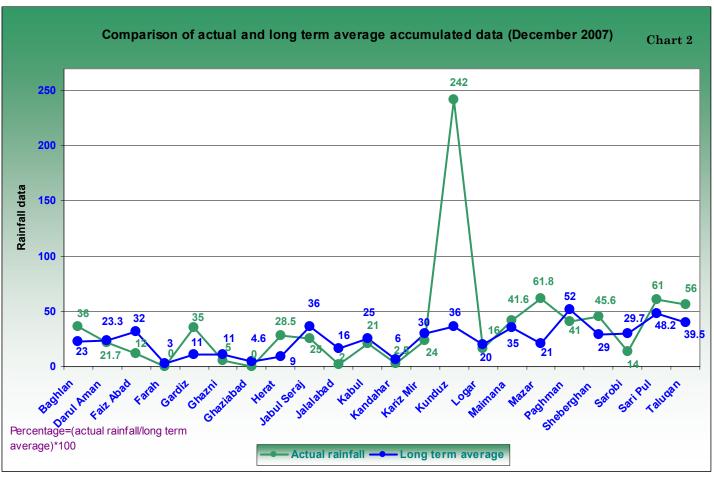


Distribution of rain was variable during the month of December 2007 in different regions of the country. As map(2) shows most amount of rainfall occurred in the Northeastern region and some parts of the Northern region

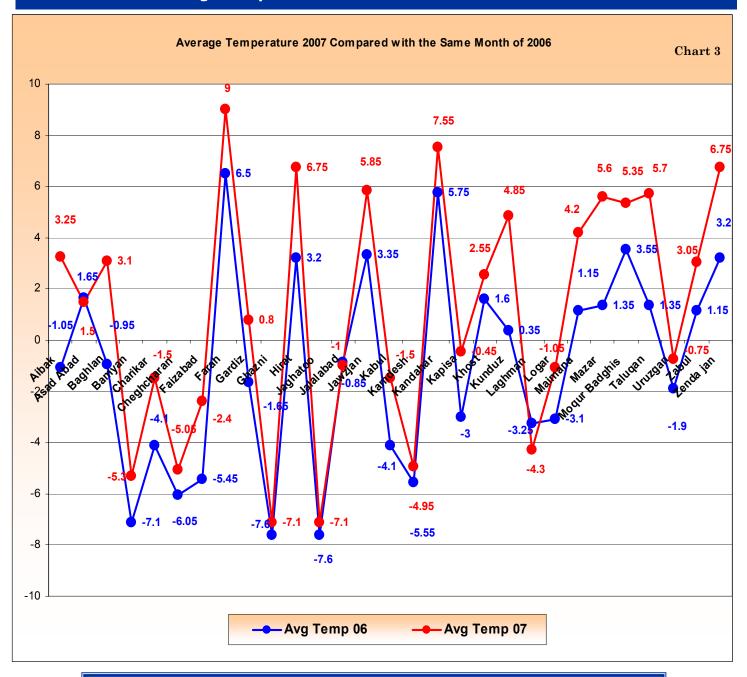
Some parts of the Southeastern regions also had good rainfall, and the Southern and some parts of the Western regions experienced less amount of rainfall for the month of December 2007.

Rainfall Graphs for the Month of December 2007





Average Temperature for the Month of December 2007

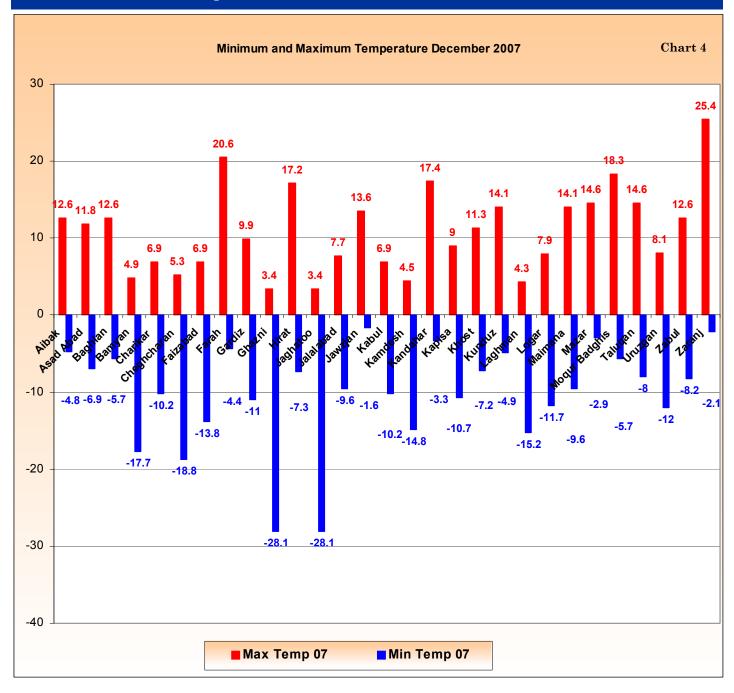


Comparison of temperature values show increase of temperature during the month of December 2007 over the same month in 2006.

Temperature for the month of December 2007 was during the month of December 2007 over the higher compared to the same month in 2006 all over the country. Comparison of temperature data for the month of December 2007 with same month of last year (chart 3) shows an increase of temperature

same month in 2006 which the Temperature 1° C to 4° C was higher compared to the same month of last year. It is mentioned that higher temperature cased to prevent normal occurrence of rainfall during the month of December.



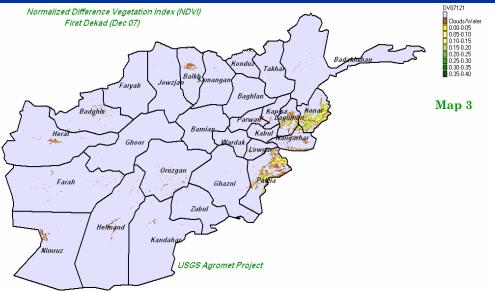


Zaranj center of Nimroz Province with 25 ° C was the warmest area in the country

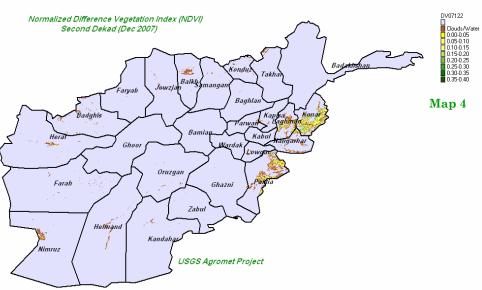
shows the minimum temperature recorded at freezing point all over the country. Gazni and Jaghatoo

Chart (4) shows maximum and minimum tem- with -28.1° C experienced extreme cold during the perature for the month of December 2007, as chart month of December and Zaranj with 25 ° C was the warmest spot of the country.

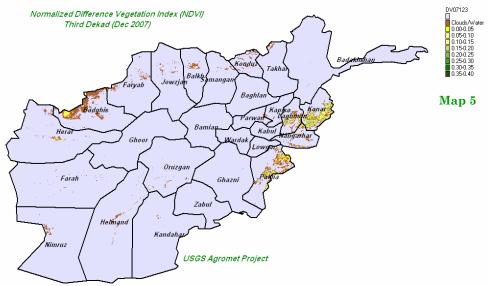
Normalized Difference Vegetation Index (NDVI) (December 2007)



Vegetation Index (NDVI) 1st Dekad of December 2007—Afghanistan

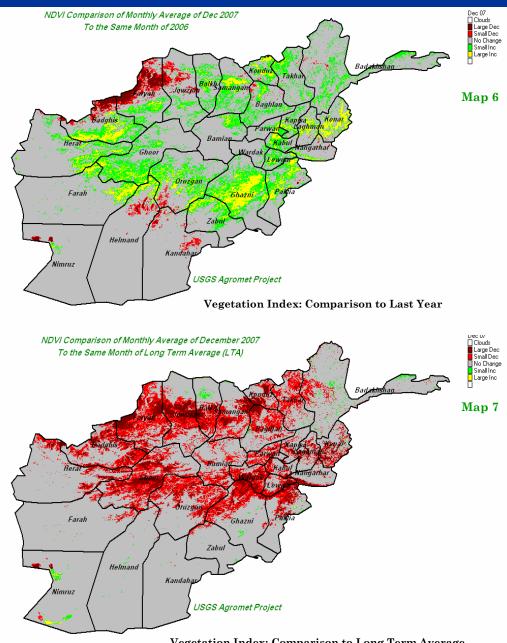


Vegetation Index (NDVI) 2nd Dekad of December 2007—Afghanistan



Vegetation Index (NDVI) 3rd Dekad of December 2007—Afghanistan

Comparison of NDVI December 2007



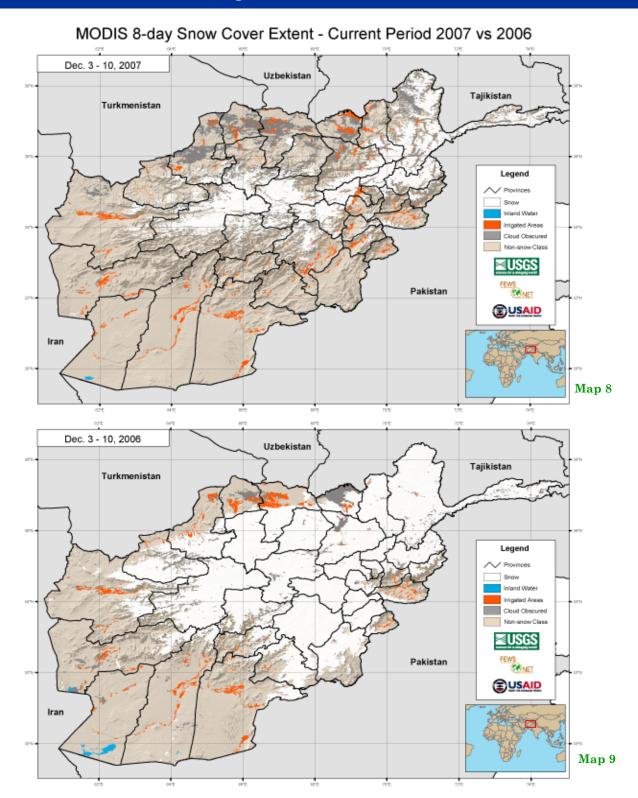
Vegetation Index: Comparison to Long Term Average

NDVI: December 2007

Comparison of monthly average of NDVI for the month Comparison of monthly average of NDVI for the of December 2007 with the same month in 2006 (Map month of December 2007 with the same month of 6) shows large increase of NDVI in some parts of the long term average (Map 7) shows small decrease of Southeastern region, some parts in the Eastern region NDVI in most parts of the Northern region, Northand limited areas in the Western region, small increase western, Western mountainous areas, Central Highoccurred in NDVI value in most parts of the Northern lands, Capital regions, some parts of the Southeastregions, and limited areas in the Northeastern region ern region and some parts of the eastern regions during the month of December 2007 compared to the during the month of December 2007 compared to the same month in 2006. Large decrease in NDVI value same month of long term average. no change in occurred in limited areas in the Northwestern region. NDVI value has been occurred in the Southern re-There is no change of NDVI in the remaining regions of gions and most parts of the Western region during the country during the month of December 2007 over the month of December 2007 over the same month of the same month in 2006.

long term average.

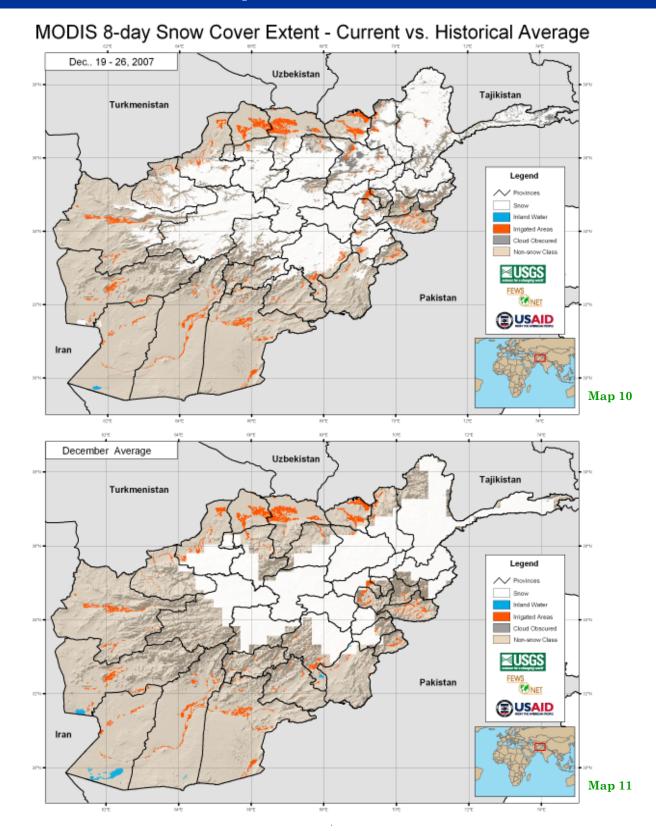
Comparison of Snow Extent



Comparison of snow extent for the period (19-26) However during the month of December no significember 2007 over the same period in 2006.

December 2007 with the same period in 2006 cant change occurred in snow extent compared to (maps 8 - 9) shows small decrease of snow extent the same month in 2006 but due to lake of snowfall in snow coverage areas during the month of De- in October and November stressed sow resources and more snowfall is needed to cover the snow resources.

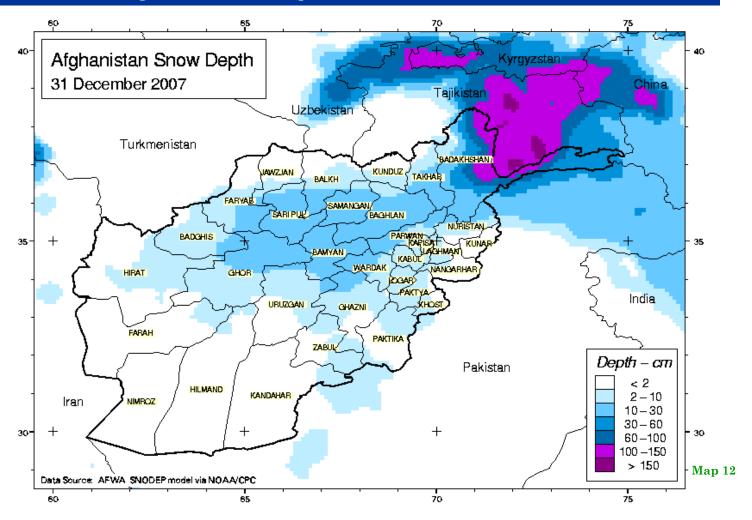
Comparison of Snow Extent



Comparison of snow extent for the month of De- extent Particularly in the Northern mountainous cember 2007 with the same month of long term areas, Northwestern regions and Western mounaverage (maps 10 - 11) shows an increase of snow

tainous areas.

Afghanistan Snow Depth for the month of December 2007



Map (12) shows the snow depth in different for the remaining region of the country. In some recorded

regions for the month of December 2007, as figure parts of the Northeastern region and from 10 cm up shows the snow depth is from 100 cm up to 150 cm to 30 cm for Central Highlands and neighboring areas.

For more information please contact:

Or

Mohammad Fahim Zaheer

fahim.zaheer@agriculture.gov.af

fahimzaheer@gmail.com

Cell: 0799-793334/ 077-2214307

Nasir Ahmad Fayez

fayez_naseerahmad@yahoo.com

Cell:0700-476311 / 0799-314064

You can download the Afghanistan's Agromet Bulletins from these sites:

http://www.agriculture.gov.af/farsi/weather.htm

http://afghanistan.cr.usgs.gov/agro.asp